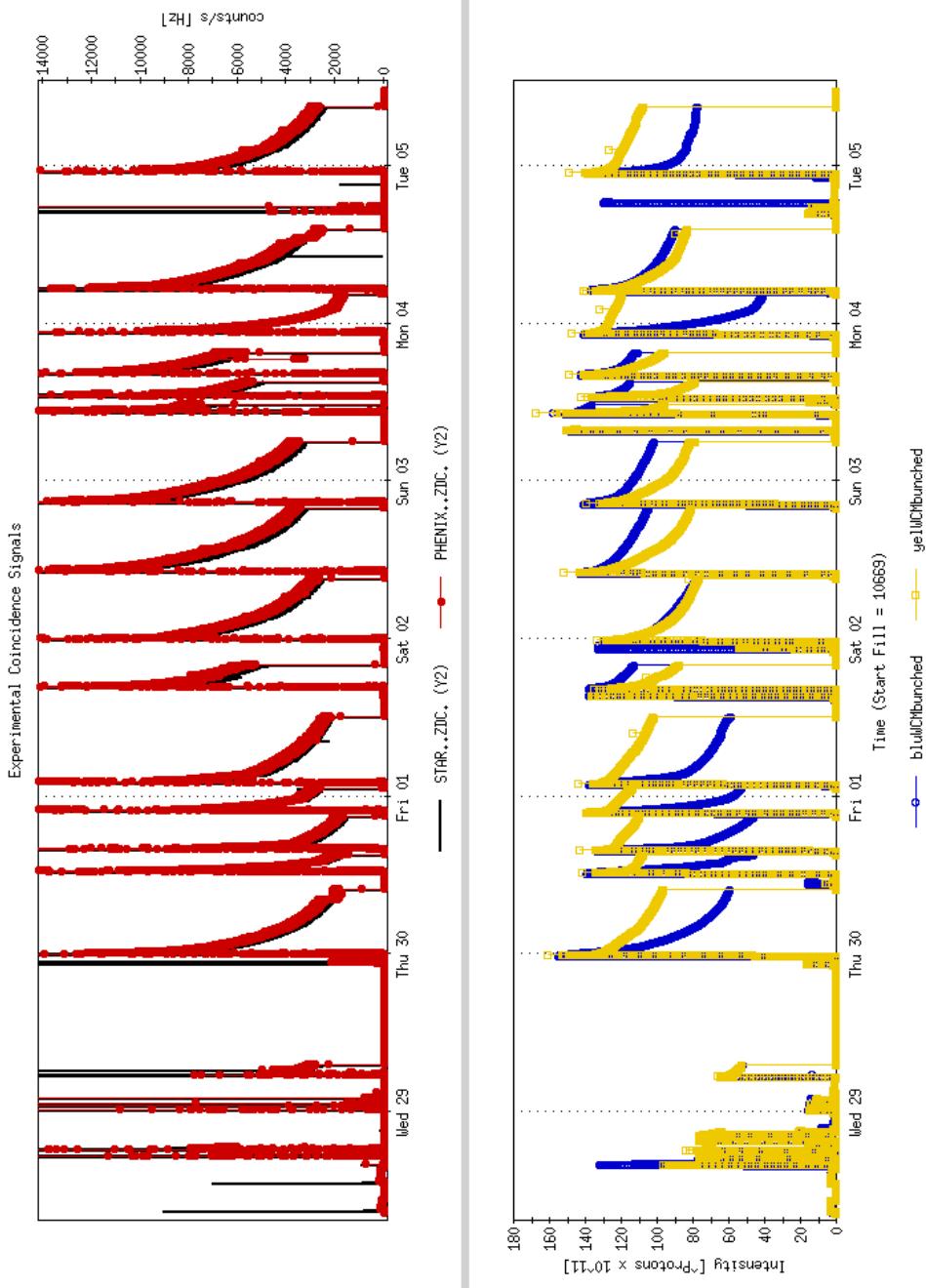


RHIC Status

May 5, 2009



- Two low-luminosity stores for STAR last Tuesday, 4/28
- Attempts at bunch shortening at injection fail (AGS quad mode pumping blows up transverse emittance, RF cavity counterphasing trips cavities)
- Two ramps for polarization ramp measurement on Tuesday show no polarization losses; $56 \times 56, 1.4 \text{e}11$
- APEx and Maintenance Day Tuesday night/Wednesday

- Extremely poor lifetime in Blue due to unknown noise source during several stores. Noise magically disappeared Friday night, returned briefly Monday.
- Spin flipper DC dipole test successful, bump is closed at injection and store.
- New peak luminosity record: $43 \cdot 10^{30} \text{ cm}^{-2} \text{sec}^{-1}$, Golden Store 10689.
- Polarization is around 55 percent only. Don't have a fast, reliable measurement that can be used for tuning.

Plan for the week

- Physics running
- Vacuum scrubbing to allow for higher intensities at smaller emittances on Thursday
- Investigate Blue noise problem